

ABSTRACT

A heater wire which can be used in an impulse heat sealer, a book binding
5 machine, a laminator, an image-creating device, and so on. A thin sheet of resistant
material such as iron-chromium alloy is further thinned by rolling, properly strengthened
by quenching, and processed by photo-etching so that the width of a heat-generating part
is small and those of the electrodes are larger than that, thus integrally producing a heater
wire. The heat-generating part of the heater wire is zigzag at such small intervals that the
10 zigzag pattern disappears on a sealing line or plane because of heat diffusion, and the
width of the zigzag is uniformly narrow and almost equal to that of the required shape.
Therefore, the drawbacks of connections between the heat-generating part and electrodes
is solved, and the resultant wire is matched with the power supply voltage because of its
relatively fine and long structure.